

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684860

Luminaire Tested: **LX6C15D010 EX6159035 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C15D010 EX6159035 6LCSWLI
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

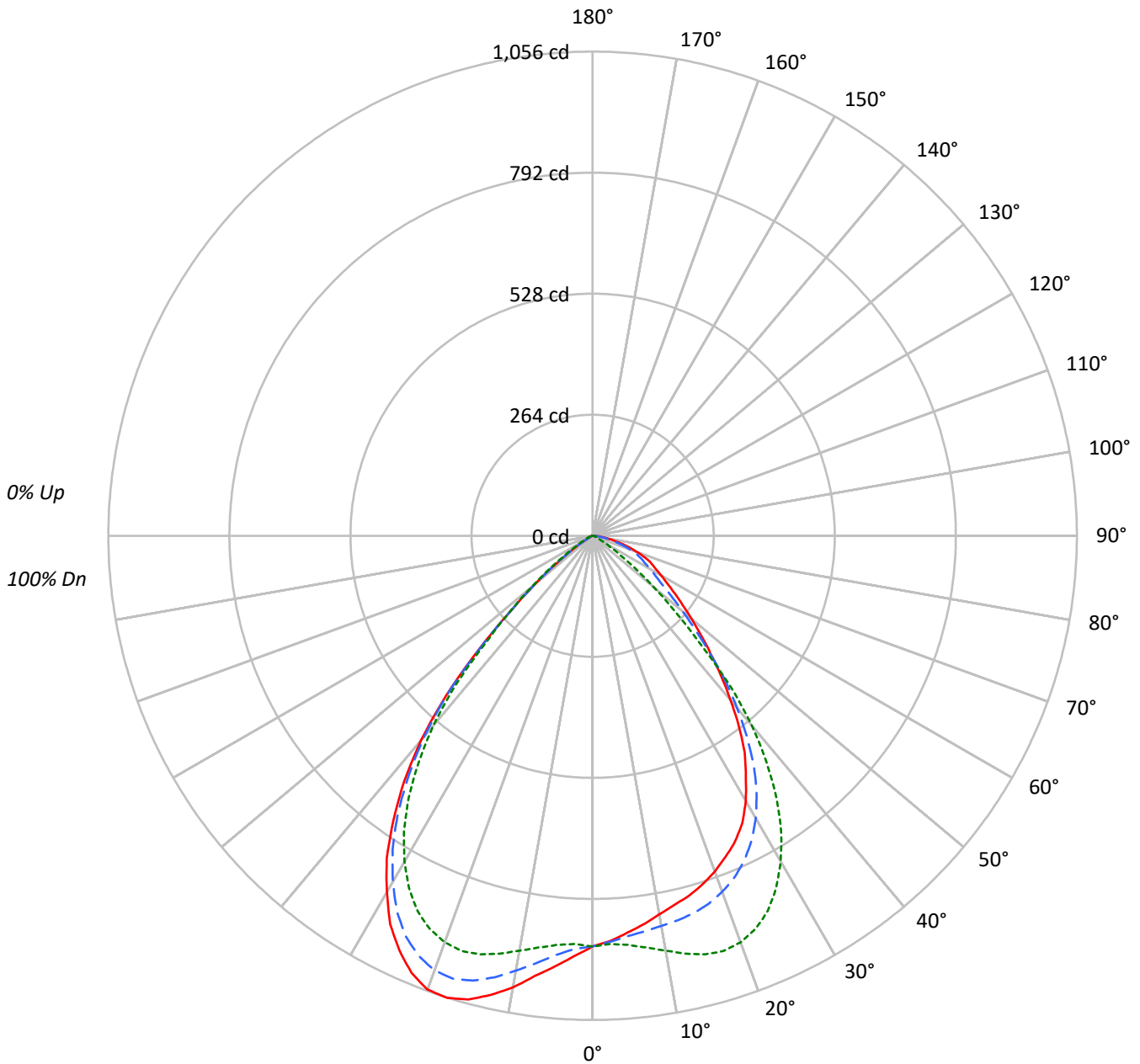
Lumens per Lamp: N/A
Luminaire Lumens: 1637.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49097	49097	49097
5°	47821	49284	51876
10°	46659	51140	55666
15°	46113	53644	59427
20°	45451	55042	61436
25°	44488	54638	60336
30°	42272	51919	56800
35°	38675	46813	50708
40°	33456	38658	41599
45°	28212	25359	27212
50°	23948	14678	13799
55°	20788	7034	5314
60°	18770	3289	1316
65°	18212	1881	441
70°	16333	1507	417
75°	13429	1080	191
80°	10008	537	0
85°	8617	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	5.3
10°-20°	263.6	16.1
20°-30°	402.8	24.6
30°-40°	421.3	25.7
40°-50°	273.3	16.7
50°-60°	108.5	6.6
60°-70°	51.5	3.1
70°-80°	24.5	1.5
80°-90°	5.0	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	752.9	46.0
0°-40°	1174.2	71.7
0°-60°	1556.0	95.1
0°-90°	1637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1637.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	896	896	896	896	896	
5°	869	877	896	918	943	82
15°	812	852	945	1004	1047	229
25°	736	782	903	964	998	337
35°	578	613	700	741	758	357
45°	364	360	327	347	351	283
55°	218	185	74	57	56	197
65°	140	116	14	3	3	137
75°	63	51	5	2	1	68
85°	14	9	0	0	0	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	884.4	886.1	876.7	874.2	881.0	883.6	884.4	881.9	882.7	886.1	886.1
5°	869.0	870.7	862.2	859.6	866.4	868.2	870.7	869.9	872.5	877.6	876.7
7.5°	854.5	857.1	847.6	844.2	852.8	857.1	858.8	858.8	862.2	869.0	869.9
10°	838.2	841.6	833.1	831.3	840.8	845.0	845.9	847.6	852.8	862.2	863.9
12.5°	824.5	827.9	821.9	819.4	829.6	833.9	835.6	839.1	845.0	857.1	858.8
15°	812.5	815.1	808.2	806.5	816.8	821.9	822.8	827.9	835.6	849.3	851.9
17.5°	797.1	798.8	793.7	792.0	802.2	807.4	808.2	814.2	823.6	837.4	841.6
20°	779.1	780.8	775.7	774.0	784.3	790.2	791.1	796.3	807.4	821.9	826.2
22.5°	757.7	761.2	755.2	753.4	763.7	768.8	771.4	775.7	786.8	801.4	807.4
25°	735.5	735.5	731.2	730.3	739.8	745.7	744.9	750.9	762.0	776.6	781.7
27.5°	706.4	705.5	701.2	700.4	710.6	715.8	714.0	720.1	730.3	744.9	750.0
30°	667.8	669.5	663.6	661.8	670.4	679.0	678.1	684.1	694.3	708.1	711.5
32.5°	621.6	623.3	622.5	619.9	627.6	631.9	634.4	638.7	647.3	661.8	665.3
35°	577.9	575.3	571.9	571.9	579.6	586.5	583.9	589.1	597.6	612.2	613.0
37.5°	524.0	523.1	521.4	519.7	528.3	530.0	530.8	534.3	542.0	553.9	552.2
40°	467.5	468.3	467.5	464.0	469.2	476.0	475.2	476.9	483.7	492.3	489.7
42.5°	414.4	414.4	414.4	411.0	417.0	420.4	422.1	421.2	422.9	430.7	427.2
45°	363.9	364.7	363.9	363.0	363.9	365.6	363.9	363.0	363.0	365.6	360.4
47.5°	320.2	320.2	317.6	315.1	317.6	318.5	315.9	313.4	312.5	311.7	303.1
50°	280.8	280.0	279.1	274.8	277.4	278.3	274.8	273.1	269.7	265.4	255.2
52.5°	246.6	245.7	244.9	240.6	242.3	243.2	239.7	236.3	232.0	228.6	215.8
55°	217.5	216.6	216.6	214.1	212.3	214.1	210.6	208.0	202.1	197.8	184.9
57.5°	192.6	192.6	190.9	188.3	189.2	189.2	185.8	182.4	177.2	172.1	161.8
60°	171.2	171.2	171.2	168.7	168.7	168.7	167.0	163.5	159.3	154.1	143.8
62.5°	154.1	154.1	153.2	150.7	151.5	151.5	149.8	146.4	142.1	138.7	128.4
65°	140.4	140.4	140.4	137.9	137.9	138.7	137.0	133.6	130.1	125.9	116.4
67.5°	123.3	122.4	122.4	120.7	121.6	122.4	120.7	118.2	113.9	111.3	102.8
70°	101.9	102.8	103.6	101.0	101.9	101.9	101.0	98.5	95.9	93.3	85.6
72.5°	83.1	83.1	82.2	81.4	81.4	82.2	80.5	77.9	76.2	74.5	68.5
75°	63.4	62.5	63.4	61.7	61.7	61.7	59.9	59.1	58.2	55.6	51.4
77.5°	46.2	45.4	45.4	43.7	44.5	44.5	43.7	42.0	40.2	39.4	35.9
80°	31.7	31.7	31.7	30.8	30.8	30.0	30.0	29.1	27.4	26.5	24.8
82.5°	21.4	21.4	21.4	20.6	20.6	20.6	19.7	18.8	18.0	17.1	15.4
85°	13.7	13.7	13.7	12.8	12.8	12.8	12.0	12.0	11.1	10.3	8.6
87.5°	7.7	7.7	7.7	6.9	6.9	6.9	6.9	6.9	6.0	5.1	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	892.1	880.2	887.8	887.8	885.3	892.1	896.4	899.9	899.0	891.3	890.4
5°	885.3	875.0	883.6	884.4	881.9	891.3	897.3	901.6	902.4	895.6	896.4
7.5°	880.2	871.6	882.7	886.1	885.3	893.9	900.7	907.5	911.0	905.8	906.7
10°	877.6	870.7	882.7	887.8	888.7	898.1	908.4	917.8	922.1	918.7	921.3
12.5°	874.2	869.9	883.6	891.3	894.7	904.1	917.0	928.1	935.0	933.3	938.4
15°	870.7	867.3	883.6	894.7	899.0	907.5	922.1	938.4	946.1	945.2	952.1
17.5°	862.2	861.3	878.5	890.4	896.4	906.7	920.4	940.1	947.8	949.5	958.1
20°	848.5	848.5	867.3	880.2	887.0	896.4	913.6	932.4	941.8	943.5	952.9
22.5°	829.6	831.3	849.3	862.2	872.5	879.3	897.3	917.0	925.5	928.1	938.4
25°	804.8	806.5	823.6	836.5	847.6	855.3	872.5	890.4	900.7	903.3	911.0
27.5°	772.3	775.7	792.0	804.8	814.2	819.4	837.4	856.2	863.9	866.4	874.2
30°	734.6	735.5	751.7	762.9	772.3	776.6	792.0	811.7	817.7	820.2	831.3
32.5°	688.4	687.5	702.9	713.2	720.9	726.0	742.3	755.2	761.2	765.4	771.4
35°	632.7	631.9	643.0	655.0	661.0	662.7	679.0	692.6	696.1	699.5	707.2
37.5°	570.2	570.2	579.6	585.6	592.5	595.0	602.8	618.2	624.2	623.3	629.3
40°	504.3	500.9	507.7	513.7	515.4	516.3	524.0	536.0	540.2	540.2	544.5
42.5°	434.9	429.8	430.7	434.1	435.8	429.8	434.9	442.6	440.1	443.5	444.4
45°	361.3	353.6	350.2	342.5	344.2	338.2	334.8	336.5	335.6	327.1	328.8
47.5°	301.4	287.7	281.7	270.6	268.0	261.1	256.9	249.1	242.3	242.3	238.0
50°	250.9	237.2	225.2	212.3	208.0	202.1	192.6	182.4	177.2	172.1	167.8
52.5°	210.6	196.1	181.5	167.8	161.8	154.1	141.3	131.0	121.6	116.4	111.3
55°	178.1	161.8	146.4	131.8	124.2	116.4	103.6	91.6	80.5	73.6	69.3
57.5°	153.2	137.9	121.6	106.2	99.3	90.7	77.1	64.2	53.9	46.2	42.0
60°	135.3	119.9	105.3	89.0	82.2	73.6	59.1	47.1	36.8	30.0	24.8
62.5°	119.9	106.2	90.7	76.2	69.3	60.8	47.1	35.1	25.7	18.8	14.5
65°	108.7	95.0	82.2	67.6	61.7	53.1	40.2	29.1	20.6	14.5	10.3
67.5°	95.9	83.9	71.1	59.1	53.1	46.2	34.2	24.8	17.1	12.0	8.6
70°	80.5	71.1	59.9	48.8	44.5	38.5	28.3	20.6	13.7	9.4	6.9
72.5°	64.2	56.5	47.9	39.4	35.9	30.0	23.1	16.3	10.3	6.9	5.1
75°	48.8	42.8	35.9	30.0	26.5	23.1	17.1	12.0	7.7	5.1	3.4
77.5°	33.4	30.8	25.7	20.6	18.8	16.3	11.1	7.7	5.1	3.4	1.7
80°	23.1	20.6	17.1	13.7	12.0	10.3	6.9	5.1	2.6	1.7	0.9
82.5°	14.5	12.0	10.3	8.6	7.7	6.0	4.3	2.6	1.7	0.9	0.9
85°	7.7	6.9	6.0	4.3	4.3	3.4	2.6	1.7	0.9	0.0	0.0
87.5°	4.3	3.4	2.6	1.7	1.7	0.9	0.9	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	900.7	900.7	899.9	910.1	898.1	910.1	904.1	910.1	901.6	900.7	901.6
5°	907.5	910.1	911.0	920.4	909.3	923.8	918.7	923.8	917.8	919.5	922.1
7.5°	921.3	925.5	924.7	936.7	925.5	941.8	938.4	946.1	940.1	941.8	945.2
10°	936.7	941.8	942.7	954.7	944.4	964.0	959.8	968.3	963.2	965.8	970.1
12.5°	954.7	960.6	961.5	975.2	964.0	984.6	982.0	990.6	986.3	988.9	994.0
15°	968.3	976.9	978.6	992.3	980.3	1001.7	1000.0	1011.2	1004.3	1008.6	1012.9
17.5°	975.2	982.9	986.3	999.2	988.9	1010.3	1008.6	1018.0	1012.9	1017.1	1022.3
20°	970.9	980.3	982.9	995.7	985.5	1006.9	1004.3	1013.7	1008.6	1012.0	1017.1
22.5°	955.5	964.9	968.3	980.3	970.9	990.6	989.8	998.3	991.5	995.7	1000.0
25°	928.1	938.4	940.1	951.2	940.9	961.5	959.8	969.2	964.0	966.6	972.6
27.5°	888.7	900.7	903.3	912.7	905.0	922.1	922.1	929.8	923.8	923.8	929.8
30°	841.6	853.6	855.3	863.0	856.2	871.6	872.5	880.2	870.7	875.9	876.7
32.5°	784.3	792.0	797.1	804.0	793.7	813.4	810.8	816.8	811.7	811.7	816.0
35°	714.9	724.3	726.9	735.5	726.9	742.3	742.3	745.7	740.6	740.6	747.4
37.5°	639.6	646.4	647.3	655.8	649.0	661.8	661.0	663.6	658.4	661.8	661.8
40°	551.4	556.5	558.2	562.5	561.7	571.1	570.2	571.9	569.4	570.2	571.9
42.5°	448.7	455.5	458.9	462.3	457.2	470.1	467.5	470.1	469.2	470.1	472.6
45°	330.5	335.6	338.2	339.0	337.3	345.0	351.0	345.9	346.7	345.0	348.5
47.5°	238.9	239.7	238.0	243.2	238.9	242.3	244.0	244.9	239.7	238.9	242.3
50°	163.5	167.8	161.8	164.4	163.5	167.0	165.2	166.1	161.0	163.5	161.8
52.5°	108.7	107.9	106.2	107.0	105.3	105.3	105.3	107.0	103.6	101.9	100.2
55°	65.9	64.2	60.8	59.9	59.9	60.8	59.1	57.4	57.4	56.5	56.5
57.5°	38.5	35.9	34.2	33.4	31.7	30.8	30.0	30.0	28.3	28.3	28.3
60°	21.4	18.8	17.1	15.4	15.4	14.5	13.7	12.8	12.8	12.8	12.0
62.5°	11.1	9.4	7.7	6.9	6.9	6.0	5.1	5.1	5.1	5.1	4.3
65°	7.7	6.0	5.1	4.3	4.3	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	6.0	5.1	4.3	3.4	3.4	3.4	2.6	2.6	2.6	2.6	2.6
70°	5.1	3.4	3.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	3.4	3.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	2.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: LX6C15D010 EX6159035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	909.3	908.4	909.3	911.0	907.5	917.8	912.7	917.8
5°	929.0	929.8	930.7	933.3	929.0	941.8	935.0	942.7
7.5°	954.7	955.5	956.4	958.9	956.4	969.2	961.5	968.3
10°	981.2	982.9	982.9	987.2	984.6	996.6	991.5	1000.0
12.5°	1006.0	1007.7	1009.5	1012.0	1010.3	1023.1	1018.9	1025.7
15°	1025.7	1029.1	1030.0	1033.4	1031.7	1045.4	1040.3	1047.1
17.5°	1035.1	1038.5	1038.5	1042.8	1041.1	1055.7	1048.8	1056.5
20°	1030.0	1032.6	1033.4	1037.7	1036.0	1050.5	1043.7	1053.1
22.5°	1013.7	1014.6	1015.4	1019.7	1018.9	1031.7	1025.7	1031.7
25°	983.7	986.3	985.5	988.9	988.9	999.2	992.3	997.5
27.5°	940.9	943.5	943.5	947.8	944.4	954.7	947.8	955.5
30°	888.7	891.3	889.6	893.0	889.6	899.9	894.7	897.3
32.5°	826.2	826.2	827.1	827.9	826.2	835.6	830.5	835.6
35°	751.7	753.4	754.3	755.2	753.4	760.3	754.3	757.7
37.5°	667.8	672.1	671.2	672.1	669.5	678.1	672.9	674.7
40°	577.9	577.9	577.1	578.8	576.2	583.1	579.6	581.3
42.5°	473.5	476.0	472.6	476.9	470.1	479.5	476.0	473.5
45°	355.3	351.9	351.0	351.9	349.3	350.2	352.8	351.0
47.5°	242.3	242.3	240.6	238.0	241.4	242.3	238.9	238.9
50°	162.7	162.7	161.0	160.1	161.8	161.0	159.3	161.8
52.5°	103.6	100.2	100.2	101.9	100.2	98.5	101.0	99.3
55°	56.5	54.8	54.8	56.5	54.8	54.8	53.9	55.6
57.5°	27.4	28.3	27.4	27.4	27.4	27.4	26.5	27.4
60°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
62.5°	5.1	5.1	4.3	4.3	4.3	4.3	4.3	4.3
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	2.6	2.6	2.6	2.6	2.6	3.4	2.6	2.6
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	2.6	2.6	3.4	3.4	3.4	3.4	3.4	3.4
75°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)